



Lesson: Look What's Springing Up



Introduction to the Lesson/Activity	This lesson is a hands on lab to simulate how the Earth works to produce a spring from ground water.	Grade 1- 8
Objectives	Students will: <ol style="list-style-type: none"> 1. learn how a spring works. 2. understand the complexity of the ground water system. 3. understand what is an aquifer. 	
Materials	Paper cup Tape Plastic baggies –sandwich size	Sponge Straw
Activity	<ol style="list-style-type: none"> 1. Cut bottom off of cup. 2. Cut sponge into circle to fit tightly into the cup. 3. Cut a whole into the center of the sponge large enough to fit straw. 4. Cut straw in half and insert into sponge. 5. Tape plastic baggie onto the outer edge of the paper cup. 	<ol style="list-style-type: none"> 6. Add water to cup (½ cup) 7. Squeeze baggie to simulate the pressure created by the Earth. (Students will have just created a spring. Some are high pressured if squeezed quickly. Others will just bubble up through the sponge.)
Key Vocabulary	Spring, Groundwater, Freshwater spring, Mineral spring, Precipitation, Aquifer,	Water cycle, Evaporation, Condensation, Precipitation, Water Table
Essential Questions	<ol style="list-style-type: none"> 1. Where does a spring come from? 2. What is the difference between freshwater spring and a mineral spring? 	<ol style="list-style-type: none"> 3. What is an aquifer? 4. What makes a spring work? 5. What is a spring?

Oklahoma Pass Standards	Grade 1- 3	Grade 3 - Earth Science - Standard 3
	Science Process Standard 2 &	Grade 4 – Physical Science - Standard 4
	Process Standard 4	Grade 5 – Physical Science - Standard 1
	Grade 4-8	Grade 6 – Physical Science - Standard 2
	Science Process Standard 1 &	Grade 7 – Earth/ Space Science - Standard 5
	Process Standard 3	
	Kindergarten	Grade 8 –Earth/ Space Science - Standard 4
	Oral Language/Listening and Speaking:	High School – Environmental Science -
	Standard 1, Standard 2, & Standard 3	Standard 1, Standard 4, & Standard 5
	Grade 1 –Earth Science - Standard 3	
	Grade 2- Earth Science - Standard 23	Science Process Standard 1

Other Suggested Activities	Rock formations	Water Conservation
	Geologic timeline	Water Pollution